16. A phytase that is encoded by a DNA sequence that is at least 95,88% identical to nucleotides 12-1412 of the DNA sequence of SEQ ID NO: 25, wherein the % identity is determined by GAP provided in the GCG program package.

17. A phytase that comprises:

- (a) an amino acid sequence of SEQ ID NO: 26 or amino acid residues 1-441 of SEQ ID NO: 26: or
- (b) an amino acid sequence encoded by nucleotides 12-1412 or 90-1412 of SEQ ID NO: 25.

18. A phytase comprising)

- (a) an amino acid sequence of SEQ ID NO: 31,
- (b) an amino acid sequence of SEQ ID NO: 31 in which the amino acid residue at position 24 is glutamine,
- (c) an amino acid sequence of SEQ ID NO: 31 in which the amino acid residue at position 65 is lysine,
- (d) an amino acid sequence of SEQ ID NO: 31 in which the amino acid residue at position 24 is glutamine and the amino acid residue at position 65 is lysine,
 - (e) an amino acid sequence of residues 1-441 of any of (a) (d), or
- (f) an amino acid sequence encoded by nucleotides 1-1401 or 79-1401 of SEQ ID NO:

19. A phytase comprising:

- (a) an amino acid sequence of SEQ ID NO: 29,
- (b) an amino acid sequence of SEQ ID NO: 29 in which the amino acid residue at position 24 is glutamine,
- (c) an amino acid sequence of SEQ D NO: 29 in which the amino acid residue at position 65 is lysine,
- (d) an amino acid sequence of SEQ ID NO: 29 in which the amino acid residue at position 24 is glutamine and the amino acid residue at position 65 is lysine.
 - (e) an amino acid sequence of residues 1-441 of any of (a) (d), or
- (f) an amino acid sequence encoded by nucleotides 1-1401 or 79-1401 of SEQ ID NO: 28.

- 20. A phytase comprising an amino acid sequence of SEQ ID NO: 27.
- 21. A food or feed composition comprising a phytase of claim 15.
- 22. A food or feed composition comprising a phytase of claim 16.
- 23. A food or feed composition comprising a phytase of claim 17.
- 24. A food or feed composition comprising a phytase of claim 18.
- 25. A food or feed composition comprising a phytase of claim 19.
- 26. A food or feed composition comprising a phytase of claim 20.